

From the simple Moslem Cal (634 A.D.) early Arab astronomers in the House of Wisdom & elsewhere worked to make the most precise lunar Cal. possible. Their solution was a 30-year cycle of 360 lunar months, which is accurate against the true orbit of the moon to within a day of drift every 2,500 yrs. ^{But} this system requires frequent intercalations, with one day

being added to the find month DHi'l-Hijli
in the 1st, 5th, 7th, 10th, 13th, 16th, 18th, 21st, 24th, 26th
and 29th year of each 30-yr cycle

$$(360)(29.5306) = 10631.016 \text{ days}$$

$$(30)(365.2422) = 10957.266 \text{ days}$$

933

Mutasser succeeds Mammun at
Bagdad.

The Arab's golden age of literature, Architecture, and science centered in Bagdad, reached an apex during the reigns of al-MANSUR's successors HAROUN ar-RASHID (ruled 786-809)

and his son al-MAMUN (ruled 809-833)

This was when the INDIAN TEXTS first brought by KANAKA, and the others that came later, were translated

organized, and studied along with
the knowledge of the ancients from
Greece and Persia and eventually
synthesized into the forms that would
later reach Europe

As the translations and originals began to stack up in the universities and libraries of Bagdad, al-MAMUN ordered a museum and library complex built that became known as the House of Wisdom. Completed by 833 it became the most outstanding single repository of knowledge and scholarship since the great library

in Alexandria

In the realm of time reckoning and astronomy, the Arabs first applied Greek and Indian ideas about measuring time to a practical need for their religion: when exactly they should kneel etc. This inspired early Arab astronomers to use and improve upon Greek instruments such as the astrolabe, sundial, and globe to better calculate the angles of the sun.

833

1912 Dates J-EK

Mohammedans Congress
Sicily

833/834

1912 Dates J-BK

Franks under Carolingian
Ludwig the Pious was deserted by
his troops in the field of LIES, near
COLMAR, ALSACE.

He was captured.

He did public penance in the
church at Soissons

He was soon liberated by his
son Ludwig and re-established
on the throne